ATSC HDTV DIGITAL TERRESTRIAL SET TOP TUNER

CHO4006 Compact ATSC Set Top Box

Choice Select

User's Manual

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Introduction

ATSC Set Top Box is the smallest and most compact ATSC HDTV receiver box for free-to-air (FTA) terrestrial digital TV broadcasting. With this device you can enjoy the HDTV and DVD quality video and audio for free. It supports CC, Electronic Program Guide (EPG) and V-Chip. Through the EPG, you can set up to 10 program timers to remind you of important programs.

With YPbPr and Composite Video output, it can be your Big Screen Display Companion.

Features:

ATSC HDTV and SDTV
Electronic Program Guide: Channel, daily and weekly
Close Caption
V-Chip supported

Package Content

Before your installation, check the package contents:

ATSC Set Top Box

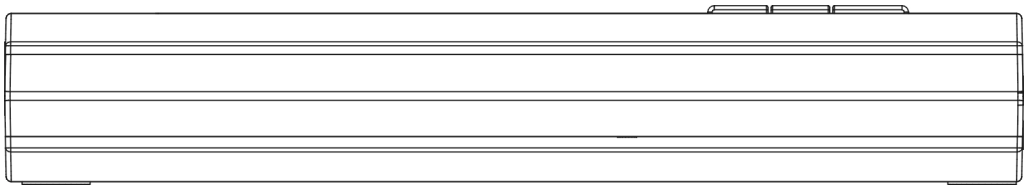
Remote controller

AV Cable

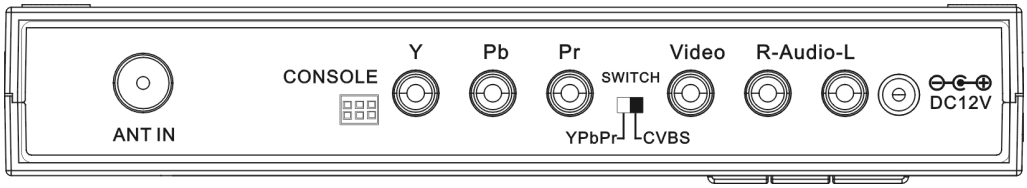
AC/DC Adaptor

Front Panel

Front Panel

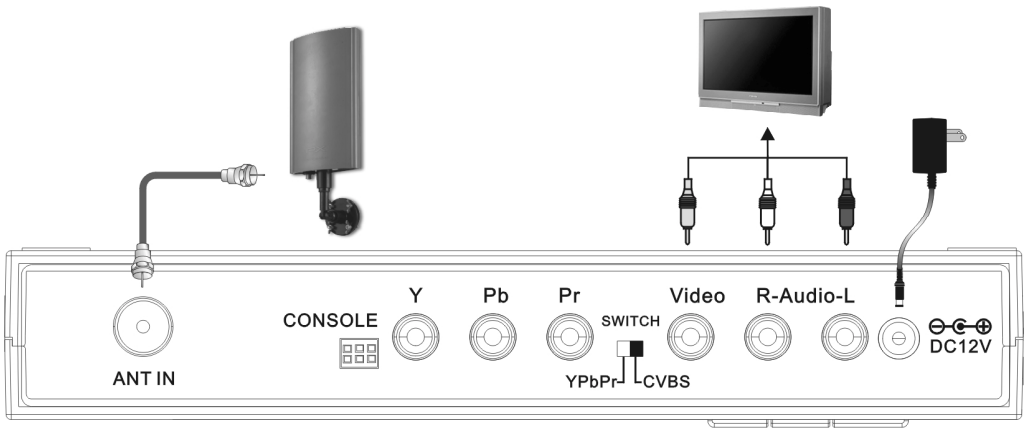


Rear Panel



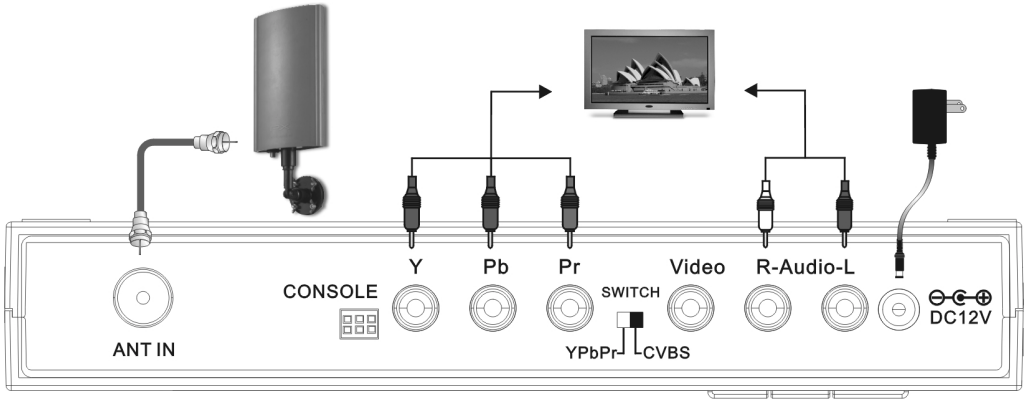
Connection

Connect to TV set with Composite Video



(Switch must be on “CVBS” position)

Connect to TV set with YPbPr Input



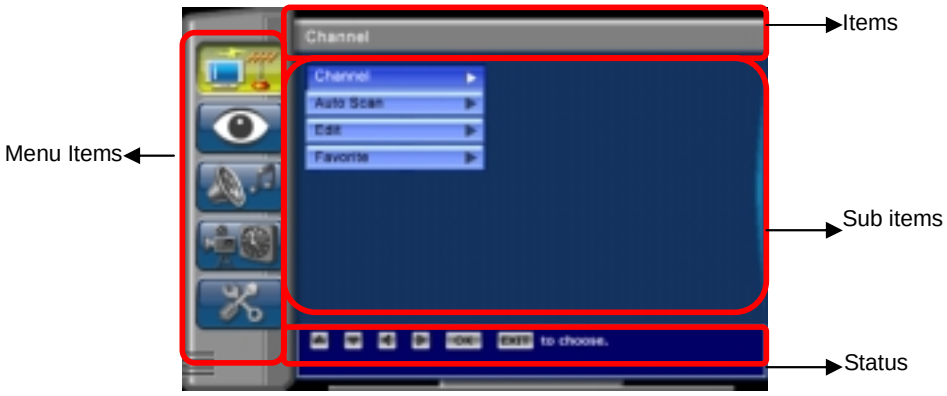
(Switch must be on “YPbPr” position)

Remote Controller Illustration

POWER	Power On /Off
0—9	0,1,2,3,4,5,6,7,8,9
CH +/-	Channel Up/Down
VOL +/-	Volume Up/Down
MUTE	Mute
PRE-CH	Go to previous Channel
RED/GREEN/ YELLOW/BLUE	Function keys Favorite channel group
MENU	Menu key
EXIT	Exit to previous menu or exit
▲▼◀▶	UP(CH+) / DOWN(CH-) LEFT(VOL-) / RIGHT(VOL+)
OK	Select/Mark/OK
EPG	Electronic Program Guide
INFO	Information of the current channels
MTS	Bilingual audio switch
Caption	Toggle to choose close caption format.
List	Program list
SCAN	Auto Scan of available channels
ASPECT	Change output video aspect ratio
RES	Change output resolution, valid only for YPbPr Output

Software Operation

When you press the “menu” key on the remote controller, the following picture will appear on your TV screen. There are 4 sections: the left side is the “main items”, upright is the “name of the main item”, middle is the “sub items of the main item”, the lower side is the “status”. In the first operation, the main items is located on “Channel”. You can choose another main item via ▲ ▼ or you can enter the sub items via ◄ ► key on the remote controller. For the further information and operation of the different main items and sub items, please see the following paragraphs.



The software organization is as follows:

Channel
- Channel
- Auto scan
- Edit
- Favorite Channel

Video
- Picture Control
- Aspect Ratio

Audio
- Audio Control
- Sound
- Speech

EPG
- Present
- Daily
- Update
- Reservation

Setup
- Parental Control
  - Channel Lock
  - Movie Rating
  - TV Rating
  - Change Password
- Caption
  - Closed Caption
  - Analog CC Mode
  - Digital CC Mode
  - User Define Style
- Language
- OSD Setting
- Time Zone
- Default

Main items and sub items operation

Channel: setting of channels, searching channel

Manual Searching

Choose “channel” on the main items.

Use ▶ key to select the sub items “channel”

Input the Channel Number (via your remote) on the screen, then press the “OK” key on your remote.

* Please Note: channel number is valid only for 2-69, numeric only

Press ▼ on the remote to select “start”, then press “OK” on your remote to start the scanning process.

When the scan begins, a progress bar will appear on your screen. If there are programs available, that information will be shown on the screen.

Channel-Auto scan for the available TV channels

Move the arrow key to “auto scan” then choose “yes” for auto scan all the available channels.

During scanning, you will see a progress bar and channel information.

Channel edit: edit the channels that already scanned and stored

Use the arrow key to select “Edit” sub item, press “OK” to enter the Channel Edit screen.

Channel Edit screen. All available channels will show on the list. To delete a channel use the arrow key and press “OK”. The deleted channels will not show up when you press CH+/-, or when you press ”LIST” on your Remote.

Favorite channel: edit the favorite channels

Use arrows key to select “Favorite” sub item, then press “OK” to enter the Favorite Channel list.

Favorite channel screen. All the channels are listed on this screen. Set your desired channels via the 4 colored keys. Each color indicates a different favorite group. Please Note: when you use the “Auto Scan” or “Default” functions, all favorite channel lists will be cleared.

Video : Changing the setting of the video output of ATSC Set Top Box
Please Note: Incorrect settings will cause serious distortion of the video on your TV screen. If you are not familiar with these adjustments, please do not adjust any items. If you have made incorrect settings, you can restore this box via the “return to default” function

Picture control

Use the arrow key to select main item “Video”.

Use the arrow key to choose “Picture Control” then press “OK” to enter the Picture Control screen.

Picture control screen. Use the controls to adjust the output video characteristics, such as brightness, contrast, sharpness, tint, saturation, and color temperature.

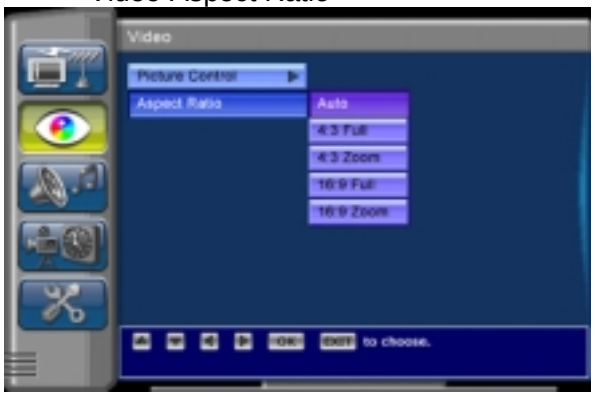
Please Note: if you are not familiar with these settings, please do not make any adjustments.

Aspect ratio

Select the video output Aspect Ratio according the TV aspect ratio.

Letter box on a 4:3 TV	If the video is 16:9 aspect ratio, this mode will show all video and maintain the aspect ratio in a normal 4:3 TV. The top and bottom of the screen will be blank.
Pan and scan on a 4:3 TV	If the video is 16:9 aspect ratio, the video will fill the screen and maintain the aspect ratio in a normal 4:3 TV. The left and right part of the video will be cut.
Ignore on a 4:3 TV	If the video is 16:9 aspect ratio, the video will fill the screen in a normal 4:3 TV but part of the original 16:9 picture will be lost.
Letter box on a 16:9 TV	If the video is 4:3 aspect ratio, this mode will show all video and maintain the aspect ratio in a wide screen 16:9 TV. The left and right of the screen will be blank.
Pan and scan on a 16:9 TV	If the video is 4:3 aspect ratio, the video will fill the screen and maintain the aspect ratio in a wide screen 16:9 TV. The top and bottom part of the video will be cut.

Video-Aspect Ratio



Use arrows key to choose Aspect Ratio of your video output.

Please Note: if you are not familiar with these settings, please do not make any adjustments.

Audio: adjustment of settings for audio output of ATSC Set Top Box
Please Note that incorrect settings will cause loss or distortion of audio.

Use the arrow key to select “Audio” main item. There are 3 sub items.

Use the arrow key to select “Audio Control” sub item, then press “OK” to enter the audio control screen.

Audio control screen. Use the controls to adjust volume, bass, treble and balance of audio output.

Please Note: if you are not familiar with these adjustments, do not adjust any items.

Audio Sound: control the audio output

Use arrow key to select the “Sound” sub item. Select the desired output audio channel.

Speech: Choose the desired language

Use the arrow key to select “language” sub item. Select the desired audio language.

EPG (Electronic Program Guide): This feature sets the EPG display format. It is a very convenient feature of the digital ATSC. You can view the program info before watching the program.

Use arrows key to select “EPG” main item, there are 5 sub items.

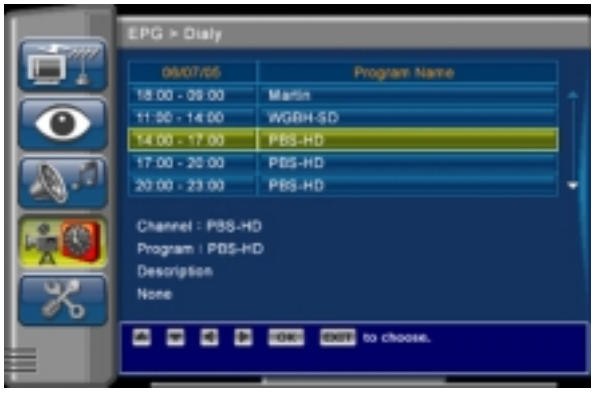
EPG-Present

Use arrow key to select “Present EPG”

This screen will show all the channels in the EPG list at the present time. Use arrow key to check EPG of desired channel. The information will show in the upright blank area.

EPG Daily

To view the daily EPG information of the channel you are watching, use arrow key to select the “Daily EPG” sub item, then press “OK”.



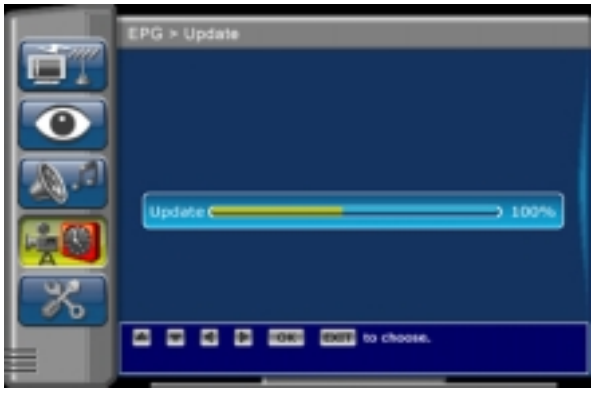
Daily EPG information will appear as shown. Use the arrow key to check detailed EPG information.

EPG Reservation

When you see a program you don’t want to miss, press the RED key on the info bar to enter the “Reservation” function. Select the desired reservation Mode: OFF, ONCE, DAILY, MON to FRI, or WEEKLY. To confirm your selection, press “OK”. After setting the reservation, the video will automatically change to the program at the desired time.

EPG update

To update the EPG information, use arrow key to select “UPDATE EPG”, then press “OK”.



A progress bar will appear on the screen.

EPG-Reservation List

Select “Reservation List” to view a list of the reserved channels.

Set Up: the major setting of the ATSC box. These are very important settings; incorrect settings could cause serious problems.

This main item is the most important. There are 6 sub items.

Setup-Parental Control. User can set parental control settings. Please Note: be sure to retain your parental password in a safe place. If you forget your parental password, you will not be able to unlock channels that you have set to lock.

Use arrow key to choose “Parental Control”, then press “OK”. Enter your password at the system prompt.

When the password is verified. there will 4 options. The first is “Channel Lock”.

Channel lock screen. This will show all the channels available. Use arrow key to select the channel and press “OK” to lock the channel.

Setup-Parental Control-Movie Rating

The second item is “Movie rating”

Movie rating screen. Select which rating is to be locked or lock all or unlock all. After completing the setting, use arrow key to “SAVE” button and press “OK”.

Setup-Parental Control-TV Rating

The third item is “TV rating”

TV rating screen. Select which rating is to be locked, or lock all or unlock all. After completing the settings, use arrow key to “SAVE” button and press “OK”.

Setup-Parental Control-Change Password

Select this sub item to change the current password to a new one.

Setup-Caption

Select “Caption” to change the setting of the close caption format.

Setup-Caption-Close Caption

There are 4 options. The first is “close caption”. Select “Off” or “On” to stop or start the close caption feature.

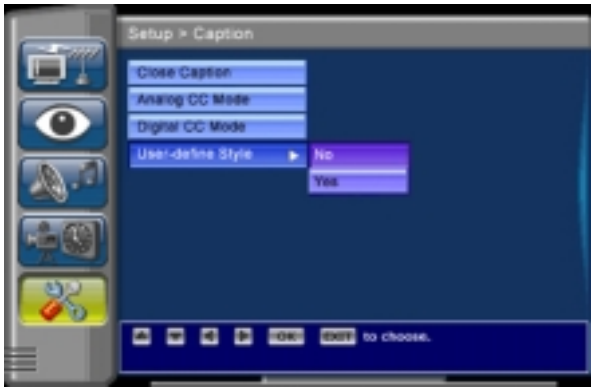
Setup-Caption-Analog CC Mode

Choose the analog CC by selecting “Analog CC mode”.

Setup-Caption-Digital CC Mode

Choose Digital CC by selecting “Digital CC mode”.

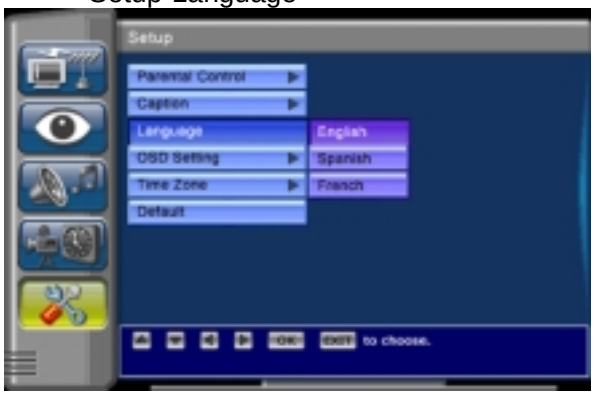
Setup-Caption-User Define Style



Select “User-Define Style” to personalize the Close Caption Style

Close Caption Style. Select Pen Size, Pen Style, Text Color, Text Opacity, Background Color, and Background Opacity

Setup-Language



Select the language of the On-Screen Display. Choose English, Spanish, or French.

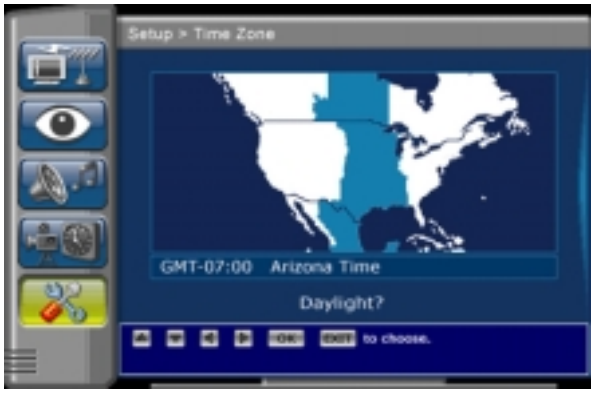
Setup-OSD Setting

Use this sub item to change the appearance of the On-Screen Display.

On-Screen Display display time setting

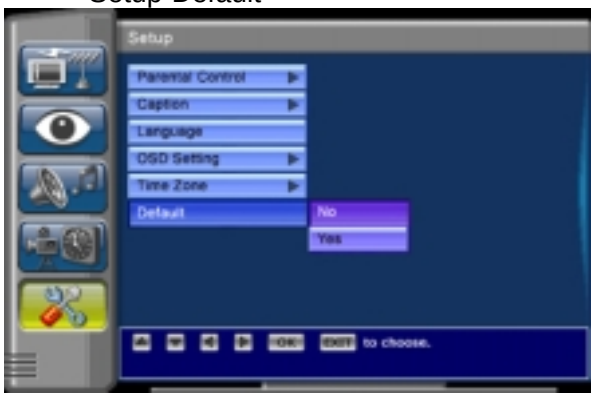
Setup-Time Zone

Select Time Zone setting to set your time zone.



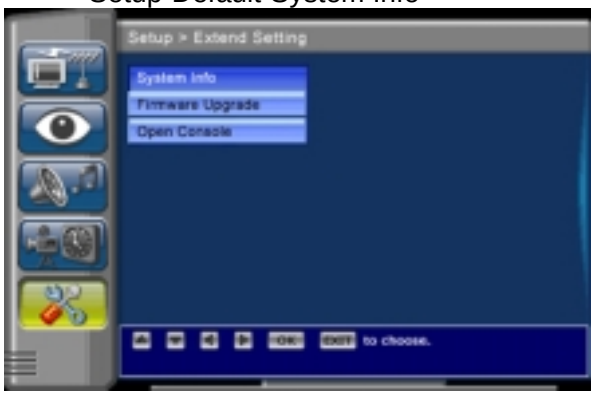
Time Zone setting

Setup-Default



Select “Default” sub item to reset the Set top box to factory default settings. Select “Yes” and press “OK” on your remote.

Setup-Default-System Info



Select “System Info” for information on the hardware and software of this device.

This screen displays the current model and software version.

The “Firmware” function would be used by a service center or authorized technician to perform a software upgrade.

The “Open Console” function would be used by a service center or authorized technician to connect to a PC.

User Information

For Indoor use only
DO NOT IMMERSE IN WATER
DO NOT OPEN THE BOX as there are no serviceable parts inside
Clean with soft cloth
Use only the AC/DC Adaptor that was included with this device